

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	Beltzer et al.
Serial No.:	(not yet assigned)
Filed:	(concurrently herewith)
Entitled:	BINDING POLYPEPTIDES AND METHODS BASED THEREON

Art Unit: (not yet assigned)

Examiner: (not yet known)

Attorney Docket No.: DYX-025.1 US

Assistant Commissioner for Patents

Box Patent Application

Washington, D.C. 20231

**Transmittal of Sequence Listing & Computer Readable Form, For Invention Containing
Nucleotide and/or Amino Acid Sequence, Under 37 CFR §§1.821-1.825**

Sir:

Transmitted herewith please find: a diskette containing a computer readable form (CRF) copy of the Sequence Listing, and a paper copy of the Sequence Listing for the patent application filed currently with this paper.

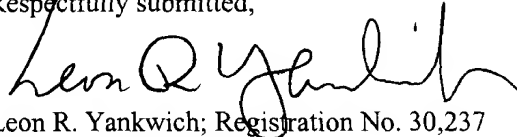
Applicant has assigned a separate identifier to each of the 217 sequences disclosed, as required by 37 CFR §§1.821-1.825.

Applicant verifies the following:

1. The enclosed Sequence Listing and the computer readable form of the Sequence Listing for the above-identified patent application are the same in content, as required by 37 CFR §1.821(f);
2. The enclosed Sequence Listing and the computer readable form of the Sequence Listing for the above-identified patent application contain no new matter and do not go beyond the original disclosure of the application, as required by 37 CFR §1.821(g);

3. The enclosed Sequence Listing and the computer readable form of the Sequence Listing for the above-identified patent application are in a form and format in accordance with 37 CFR §§1.822, 1.823, and 1.824.

Respectfully submitted,



Leon R. Yankwich; Registration No. 30,237

Attorney for Applicants

YANKWICH & ASSOCIATES

130 Bishop Allen Drive

Cambridge, Massachusetts 02139

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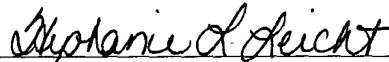
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17 August 2001

Date



Stephanie L. Leicht

SEQUENCE LISTING

<110> Human Genome Sciences, Inc.
 Beltzer, James P.
 Potter, M. Daniel
 Fleming, Tony J.
 Rosen, Craig A.

<120> BINDING POLYPEPTIDES AND METHODS BASED THEREON

<130> Dyx-025.1 PCT; DYX-025.1 US

<140> not yet assigned
 <141> 2001-08-17

<160> 458

<170> PatentIn version 3.1

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 <223> X8 is Ala, Arg, Asn, Gly, His, Lys, Ser, or Tyr;

<220>
 <221> MISC_FEATURE
 <222> (9)..(9)
 <223> X9 is Ala, Arg, Asn, Gln, Leu, Met, Ser, Trp, Tyr, or Val;

<400> 11

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys
 1 5 10

<210> 12
 <211> 12
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 <213> Artificial Sequence

<220>
 <223> BLyS binding polypeptide

<220>
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 <222> (2)..(2)
 <223> X2 is Arg, Asn, Gln, Glu, His, Leu, Phe, Pro, Trp, Tyr, or Val (preferably Trp, Tyr, or Val);

<220>
 <221> MISC_FEATURE
 <222> (3)..(3)
 <223> X3 is Arg, Asp, Gln, Gly, Ile, Lys, Phe, Thr, Trp or Tyr (preferably Asp);

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X4 is Ala, Arg, Asp, Glu, Gly, Leu, Ser, or Tyr (preferably Asp);

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> X5 is Asp, Gln, Glu, Leu, Met, Phe, Pro, Ser, or Tyr (preferably Leu);

<220>
 <221> MISC_FEATURE
 <222> (6)..(6)
 <223> X6 is Asp, Leu, Pro, Thr, or Val (preferably Leu or Thr);

<220>
 <221> MISC_FEATURE
 <222> (7)..(7)
 <223> X7 is Arg, Gln, His, Ile, Leu, Lys, Met, Phe, Thr, Trp or Tyr (preferably Lys or Thr);

<220>
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 <222> (8)..(8)
 <223> X8 is Ala, Arg, Asn, Gln, Glu, His, Leu, Lys, Met, or Thr (preferably Arg or Leu);

<220>
 <221> MISC_FEATURE
 <222> (9)..(9)
 <223> X9 is Ala, Asn, Gln, Gly, Leu, Lys, Phe, Pro, Thr, Trp, or Tyr (preferably Thr or Trp);

<220>
 <221> MISC_FEATURE
 <222> (10)..(10)
 <223> X10 is Ala, Arg, Gln, His, Lys, Met, Phe, Pro, Thr, Trp, or Tyr (preferably Met or Phe);

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)

<223> X11 is Arg, Gln, Glu, Gly, His, Leu, Met, Phe, Pro, Ser, Thr, Tyr
, or Val (preferably Val);

<400> 12

Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys
1 5 10

<210> 13

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> c-terminal linker

<400> 13

Pro Gly Pro Glu Gly Gly Gly Lys
1 5

<210> 14

<211> 12

<212> PRT

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<220>

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<220>

<221> MISC_FEATURE

<222> (1)..(3)

<223> X is any amino acid except Cys

<220>

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<222> (5)..(8)

<223> X is any amino acid except Cys

<220>

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<222> (10)..(12)

<223> X is any amino acid except Cys

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1 5 10

<210> 15

<211> 13
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<220>
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<220>
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<400> 15

Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
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<210> 16
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 <222> (1)..(14)
 <223> X is any amino acid except Cys

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<210> 17
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<222> (13)..(15)

<223> X is any amino acid except Cys

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1				5					10						15

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<222> (1)..(3)

<223> X is any amino acid except Cys

<220>

<221> MISC_FEATURE

<222> (5)..(12)

<223> X is any amino acid except Cys

<220>

<221> MISC_FEATURE

<222> (14)..(16)

<223> X is any amino acid except Cys

<400> 18

Xaa	Xaa	Xaa	Cys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Xaa	Xaa	Xaa
1				5					10							15

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 <222> (16)..(18)
 <223> X is any amino acid except Cys

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 Xaa Xaa

<210> 20
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<220>
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<400> 20
 His Leu Arg Cys Trp Ser Thr Asn Cys Arg Tyr Asp
 1 5 10

<210> 21
 <211> 12
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<220>

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<400> 21

Val Met Asp Cys Leu Ile Asn Arg Cys Asp Thr Val
1 5 10

<210> 22

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 22

Lys Ser Lys Cys Phe Phe Pro Trp Glu Cys Gln Gln Ala
1 5 10

<210> 23

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 23

Ala Met Lys Cys Tyr Phe Pro Trp Glu Cys Ala Asn Gly
1 5 10

<210> 24

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 24

Glu Asn Val Ala Cys Tyr Phe Pro Trp Glu Cys His His Pro
1 5 10

<210> 25

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 25

Asn Ala Pro Cys Tyr Phe Pro Trp Glu Cys Phe Ser Ile
1 5 10

<210> 26

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 26

Ser Val Asn Cys Trp Phe Pro Trp Glu Cys Val Gly Asn
1 5 10

<210> 27

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 27

Lys Glu Pro Cys Tyr Phe Tyr Trp Glu Cys Ala Val Ser
1 5 10

<210> 28

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 28

Asp Thr Asn Cys Asp Leu Leu Thr Lys Met Cys Gly Pro Gln
1 5 10

<210> 29

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 29

Gly Thr Pro Cys Asp Leu Leu Thr Lys Leu Cys Leu Leu Trp
1 5 10

<210> 30

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 30

Met Ser Glu Cys Asp Leu Leu Thr Lys Ile Cys Leu Met Gly
1 5 10

<210> 31

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 31

Val Pro Phe Cys Asp Leu Leu Thr Lys His Cys Phe Glu Ala
1 5 10

<210> 32

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 32

Val Pro Phe Cys Asp Leu Leu Thr Lys His Cys Phe Glu Ala
1 5 10

<210> 33

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 33

Trp Ser Ala Cys Asp Leu Leu Thr Lys Gln Cys Val Gln Val
 1 5 10

<210> 34
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 34

Asp Gly Cys Asp Glu Leu Thr Lys Ile Cys Gly Met Lys
 1 5 10

<210> 35
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> BLYS binding polypeptide

<400> 35

Lys Ser Trp Cys Asp Glu Leu Thr Lys Val Cys Phe Asp Pro
 1 5 10

<210> 36
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> BLYS binding polypeptide

<400> 36

Lys Trp Met Cys Asp Glu Leu Thr Lys Gln Cys Gln Tyr Val
 1 5 10

<210> 37
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> BLYS binding polypeptide

<400> 37

Met Lys Tyr Cys Asp Glu Leu Thr Lys Ile Cys Val Gly Trp
 1 5 10

<210> 38
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> BLYS binding polypeptide

<400> 38

Tyr Phe Gln Cys Asp Glu Leu Thr Lys Met Cys Trp Gln Lys
 1 5 10

<210> 39
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> BLYS binding polypeptide

<400> 39

Ala Met His Cys Asp Lys Leu Thr Lys His Cys Lys Phe His
 1 5 10

<210> 40
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> BLYS binding polypeptide

<400> 40

Val Pro Tyr Cys Asp Lys Leu Thr Lys Ile Cys Gln Trp
 1 5 10

<210> 41
 <211> 14
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<220>
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<400> 41

Glu Val Phe Cys Asp Val Leu Thr Lys Val Cys Phe His Asp

1

5

10

<210> 42
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<220>
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<400> 42

Lys Pro Lys Cys Asp Val Leu Thr Lys Met Cys Asp Trp Leu
 1 5 10

<210> 43
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 <212> PRT
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<220>
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<400> 43

Thr Gln His Cys Asp Val Leu Thr Lys Gln Cys Phe Thr Ile
 1 5 10

<210> 44
 <211> 14
 <212> PRT
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<220>
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<400> 44

Gly His Phe Cys Asp Arg Leu Thr Lys Tyr Cys Phe Glu Pro
 1 5 10

<210> 45
 <211> 14
 <212> PRT
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<220>
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<400> 45

His Ile Gln Cys Asp Arg Leu Thr Lys Ser Cys Leu Ser Val
 1 5 10

<210> 46
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> BLYS binding polypeptide

<400> 46

Ile Lys Ala Cys Asp Ile Leu Thr Lys Val Cys Trp Pro Pro
 1 5 10

<210> 47
 <211> 14
 <212> PRT
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<220>
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<400> 47

Gln Phe Asp Cys Asp Pro Leu Thr Lys Tyr Cys Gly Glu Phe
 1 5 10

<210> 48
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 48

Lys Met Tyr Cys Asp His Leu Thr Gly Tyr Cys Trp Pro Glu
 1 5 10

<210> 49
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 49

Met Gln Ser Cys Asp Ile Leu Thr Gly Tyr Cys Phe Lys Arg
 1 5 10

<210> 50
<211> 14
<212> PRT
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<220>
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<400> 50

Gly Pro Trp Cys Asp Ile Leu Thr Gly Phe Cys Leu Ala Gln
1 5 10

<210> 51
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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<400> 51

Ser Val Arg Cys Asp Leu Leu Thr Gly Trp Cys Pro Val Trp
1 5 10

<210> 52
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> BLYS binding polypeptide

<400> 52

Pro Ala Asp Cys Asp Pro Leu Thr Asn Ile Cys Phe Trp Lys
1 5 10

<210> 53
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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<400> 53

Thr Asn Val Cys Asp Pro Leu Thr Asn Val Cys Phe Met Asn
1 5 10

<210> 54
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 <212> PRT
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<220>
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<400> 54

Glu His Trp Cys Asp Asp Leu Thr His Leu Cys Phe Arg Leu
 1 5 10

<210> 55
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 55

Gly Tyr Trp Cys Asp Val Leu Thr Asn Asn Cys Trp Lys Ile
 1 5 10

<210> 56
 <211> 14
 <212> PRT
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<220>
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<400> 56

Leu Tyr Asn Cys Asp Tyr Leu Thr Arg Leu Cys Phe Glu Pro
 1 5 10

<210> 57
 <211> 14
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<220>
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<400> 57

His Val Asp Cys Leu Leu His Pro Lys Ala Cys Tyr Lys Tyr
 1 5 10

<210> 58

<211> 14
<212> PRT
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<220>
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<400> 58

Val Gln Asp Cys Leu Leu His Pro Lys Ala Cys Gln Met Gln
1 5 10

<210> 59
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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<400> 59

Lys Phe Asp Cys Leu Leu Lys Pro Met Phe Cys Ser Asn His
1 5 10

<210> 60
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> BLYS binding polypeptide

<400> 60

Phe Ala Asp Cys Leu Ile His Pro Lys Ser Cys Lys Pro Leu
1 5 10

<210> 61
<211> 14
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<220>
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<400> 61

His Gly Asn Cys Tyr Pro Phe Pro Trp Glu Cys Glu Ser Lys
1 5 10

<210> 62
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<212> PRT
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<220>
<223> BLYS binding polypeptide

<400> 62

Met Ile Ile Val Leu Leu Leu Leu Arg Phe Ala Ile Ser Arg
1 5 10

<210> 63
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> BLYS binding polypeptide

<400> 63

Ser Leu Leu Val Ile Phe Leu Leu Ile Gly Ala Gly Ser Leu
1 5 10

<210> 64
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> BLYS binding polypeptide

<400> 64

Phe His Pro Cys Asp Met Leu Thr Gly Ile Trp Cys Gln Pro Asn
1 5 10 15

<210> 65
<211> 15
<212> PRT
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<220>
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<400> 65

Ser Lys Arg Cys Asp Leu Leu Thr Lys Met Trp Cys Glu Thr Glu
1 5 10 15

<210> 66
<211> 15
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<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 66

Thr Lys Phe Cys Asp Arg Leu Thr Met Pro Lys Cys Val Trp Lys
1 5 10 15

<210> 67

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 67

Asn Thr Phe Cys Pro Asp Pro Leu Thr Gly Arg Cys Val Asn Pro
1 5 10 15

<210> 68

<211> 15

<212> PRT

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<220>

<223> BLYS binding polypeptide

<400> 68

Asp Trp Thr Cys Asp Pro Leu Phe His Arg Glu Cys Ile Phe Glu
1 5 10 15

<210> 69

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 69

Pro Gln Pro Cys Asp Leu Leu Phe Glu Lys Lys Cys Ser Ile Lys
1 5 10 15

<210> 70

<211> 15

<212> PRT

<213> Artificial Sequence

<220>
<223> BLYS binding polypeptide

<400> 70

Arg	Trp	His	Cys	Asp	Met	Leu	Ile	Asn	Pro	Ser	Cys	Leu	Pro	Asp
1				5					10					15

<210> 71
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<220>
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<400> 71

Lys	Ile	Gln	Cys	Asp	Ile	Val	Asn	Leu	Ser	Ser	Cys	Val	Tyr	Pro
1				5					10					15

<210> 72
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<220>
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<400> 72

Leu	Asn	Ala	Cys	Asp	Ile	Val	His	Pro	Asn	Tyr	Cys	Ser	Gly	Met
1				5					10					15

<210> 73
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<220>
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<400> 73

Ala	Lys	Ala	Cys	Ser	Ile	Val	Asn	Leu	Glu	Ser	Cys	Glu	Tyr	Leu
1				5					10					15

<210> 74
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<220>
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<400> 74

Arg Gln Ala Cys Ser Ile Ile Thr Pro Trp Gly Cys Pro Ile Pro
1 5 10 15

<210> 75
<211> 15
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<220>
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<400> 75

Ala Asp Asn Cys Thr Val Ala Thr Leu Asp Phe Cys Tyr Trp Thr
1 5 10 15

<210> 76
<211> 15
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<400> 76

Lys Pro Glu Cys Asn Ile Thr Lys Pro Gln Phe Cys Phe Gly Glu
1 5 10 15

<210> 77
<211> 15
<212> PRT
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<400> 77

Asn Asn Cys Gln Trp Asp Glu Leu Thr Ser Met Cys Asp Pro Phe
1 5 10 15

<210> 78
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<212> PRT
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<400> 78

Ser Arg Leu Cys His Met Asp Glu Leu Thr His Val Cys Val His Phe
1 5 10 15

<210> 79

<211> 16

<212> PRT

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<220>

<223> BLyS binding polypeptide

<400> 79

Ser Arg Pro Cys Gln Ile Asp Glu Leu Thr Lys Ala Cys Phe Tyr Asn
1 5 10 15

<210> 80

<211> 16

<212> PRT

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<220>

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<400> 80

Asp Arg Val Cys Lys Leu Asp Phe Leu Thr Tyr Asn Cys Leu Asn His
1 5 10 15

<210> 81

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> BLyS binding polypeptide

<400> 81

His Ser Asn Cys Ile Met Asp Leu Leu Thr Asn Arg Cys Phe Tyr Asp
1 5 10 15

<210> 82

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> BLyS binding polypeptide

<400> 82

Pro Phe Asn Cys Phe His Asp Pro Leu Thr Gly Leu Cys Leu His Ser
1 5 10 15

<210> 83

<211> 16

<212> PRT

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<220>

<223> BLYS binding polypeptide

<400> 83

Tyr Asp Ser Cys Thr Tyr Asp Arg Leu Thr Lys Gln Cys Tyr Pro Ser
1 5 10 15

<210> 84

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 84

Phe His Asp Cys Met Tyr Asp Ala Leu Leu Gly Tyr Cys Leu Pro Tyr
1 5 10 15

<210> 85

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 85

Asn Arg Ser Cys Asp Pro Leu Thr Arg Pro Lys Ser Cys Gly Leu
1 5 10 15

<210> 86

<211> 16

<212> PRT

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<220>

<223> BLYS binding polypeptide

<400> 86

Leu Ser Asn Cys Asp Trp Asp Asp Leu Ile Arg Gln Cys Leu His Asp
1 5 10 15

<210> 87

<211> 16

<212> PRT

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<220>

<223> BLYS binding polypeptide

<400> 87

Phe Trp Asp Cys Leu Phe His Pro Asn Ser Arg Tyr Cys Val Leu Ser
1 5 10 15

<210> 88

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 88

Ser Arg Asp Cys Leu Leu Ser Pro Ala Met Ala Trp Cys Gly Leu Asp
1 5 10 15

<210> 89

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 89

Gly Gly Asn Cys Tyr Thr Asp Ser Leu Thr Lys Leu His Phe Cys Met
1 5 10 15

Gly Asp

<210> 90

<211> 16

<212> PRT

<213> Artificial Sequence

<220>
 <223> BLYS binding polypeptide
 <400> 90

Met Cys Pro Arg Asp Pro Leu Thr Lys Ala Lys Leu Cys Asn Trp His
 1 5 10 15

<210> 91
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> BLYS binding polypeptide
 <400> 91

Pro Asn Gln Cys Gln Asp Asp Leu Thr Lys Gln Trp Tyr Ser Cys His
 1 5 10 15

Tyr His

<210> 92
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> BLYS binding polypeptide
 <400> 92

Phe Asp Met Cys Phe Asp Ala Leu Thr Lys Gln Asn Phe Tyr Cys Arg
 1 5 10 15

Phe His

<210> 93
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> BLYS binding polypeptide
 <400> 93

Arg Asn Met Cys Val Asp Arg Leu Thr Lys Leu Gln His Gly Cys Glu
 1 5 10 15

Gly Ala

<210> 94
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> BLYS binding polypeptide

<400> 94

Asp Pro Glu Cys Leu Thr Ser Phe Asp Arg Leu Thr Lys Met Cys Trp
1 5 10 15

Pro Trp

<210> 95
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> BLYS binding polypeptide

<400> 95

Asp Asp Glu Cys His Tyr Asp Tyr Leu Thr His Tyr Met Arg Cys Asp
1 5 10 15

Tyr Arg

<210> 96
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
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<400> 96

Phe Gly Gly Cys Asn Ile Asp Leu Leu Thr Asn Thr Met Met Cys His
1 5 10 15

Arg Asn

<210> 97
 <211> 18
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 <213> Artificial Sequence

<220>
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<400> 97

His Gly Pro Cys Tyr Trp Asp Glu Leu Thr Met Gln Trp His Cys Asn
 1 5 10 15

His His

<210> 98
 <211> 18
 <212> PRT
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<220>
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<400> 98

Gly Ala Met Cys Val Asp Leu Leu Thr Tyr Thr Phe Arg Pro Cys Met
 1 5 10 15

Tyr Ala

<210> 99
 <211> 18
 <212> PRT
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<220>
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<400> 99

Ser Asn Lys Cys Trp Asp Glu Leu Thr His Ala Trp Ala Glu Cys Gly
 1 5 10 15

Arg Phe

<210> 100
<211> 18
<212> PRT
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<220>
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<400> 100

Arg Pro Val Cys Tyr Lys Gly Tyr Asp Ile Leu Thr Thr Gln Cys Met
1 5 10 15

Pro Trp

<210> 101
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<400> 101

Pro Ser Arg Cys Trp Phe Asp Leu Leu Phe Asn Lys Phe Val Cys Lys
1 5 10 15

Arg Asn

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<400> 102

Arg Ser Gly Cys Val Tyr Asp Met Leu Leu Met Thr Met Tyr Cys Pro
1 5 10 15

Ser Asn

<210> 103
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<400> 103

Ser Asn Arg Cys Glu Gly Asp Gln Leu Met Arg Pro Pro Ser Cys Arg
1 5 10 15

His Leu

<210> 104

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<400> 104

Tyr Arg Met Cys Trp Trp Asp Asp Leu Leu Arg Gly Phe Val Cys Asp
1 5 10 15

Phe His

<210> 105

<211> 18

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<400> 105

His Asp Gly Cys Tyr Asp Glu Leu Leu Tyr Arg Trp Thr Arg Cys Glu
1 5 10 15

His Arg

<210> 106

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<400> 106

Trp Ala Trp Cys Phe Asp Glu Leu Val Gln Arg Tyr Phe Thr Cys Phe
1 5 10 15

Asp His

<210> 107

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<400> 107

Leu Pro Glu Cys Arg Gln Tyr Phe Pro Trp Glu Lys Gln Val Cys Ser
1 5 10 15

Tyr Trp

<210> 108

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<400> 108

Val His Tyr Asp Ser Leu Thr Lys Met Trp Thr Arg
1 5 10

<210> 109

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<400> 109

Phe Thr Asp Pro Leu Thr Lys Met Ser Leu His Ser
1 5 10

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Gly Tyr Asp Val Leu Thr Lys Leu Tyr Phe Val Pro
 1 5 10

<210> 111
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Tyr Tyr Asp Arg Leu Thr Lys Leu Tyr Ser Ser Met
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Leu Xaa Lys Asp Pro Leu Thr Lys Leu Tyr Ile Ser
 1 5 10

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 <223> X is unknown

<400> 113

Gly Tyr Asp Val Leu Thr Lys Leu Xaa Phe Val Pro
 1 5 10

<210> 114
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<400> 114

Arg Leu Tyr Asp Pro Leu Thr Lys Leu Val Leu Ser
 1 5 10

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<400> 115

Met Phe Asp Pro Leu Thr Lys Ile Ala Phe Pro Ala
 1 5 10

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<400> 116

Phe Tyr Asp Ser Leu Thr Lys Thr Asn Leu Arg Asp
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<400> 117

Gly Ile Tyr Asp Lys Leu Thr Arg Ala Trp Leu Pro
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Lys Tyr Asp Pro Leu Thr Arg Ala Arg Xaa Pro Leu
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<400> 119

Tyr Ile Asp Gln Leu Thr Arg Leu Ser Leu Pro Ser
1 5 10

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<400> 120

His Gln Thr Phe Asp Ile Leu Thr Arg Leu His Phe
1 5 10

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Trp Gln Phe Asp Val Leu Thr Arg Ser Trp Thr Pro
 1 5 10

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<400> 122

Gly Ala Ala Tyr Asp His Leu Thr Arg Thr Trp Leu
 1 5 10

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<400> 123

Tyr Phe Asp Gln Leu Thr His Leu Ser Ile Lys Lys
 1 5 10

<210> 124
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<400> 124

Ala Trp Asp Pro Leu Thr Met Leu Val Leu Pro Trp
 1 5 10

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<400> 125

Ala	Leu	Trp	Met	Asp	Pro	Leu	Thr	Gly	Leu	Ala	Phe
1				5					10		

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Trp	Gln	Phe	Asp	Val	Leu	Thr	Xaa	Ser	Trp	Thr	Pro
1				5					10		

<210> 127
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<400> 127

Trp	Thr	Asp	Pro	Leu	Thr	His	Met	Glu	Ile	Tyr	His
1				5					10		

<210> 128
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<400> 128

Trp Thr Asp Ser Leu Thr Gly Leu Trp Phe Pro Asp
1 5 10

<210> 129

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Tyr Thr Asp Pro Leu Thr Gly Ile Val Xaa Pro Phe
1 5 10

<210> 130

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<400> 130

Tyr Trp Asp Lys Leu Thr Met Leu His Leu Gly Val
1 5 10

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<400> 131

Tyr Tyr Asp Phe Leu Thr Arg Thr Val Leu Pro Ser
1 5 10

<210> 132

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<400> 132

Arg Leu Asp Pro Leu Ser Lys Asn Asp Phe Pro Arg
1 5 10

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<400> 133

Leu Arg Tyr Asp Pro Leu Leu Lys Ser Xaa Ile Tyr
1 5 10

<210> 134

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<400> 134

Leu Arg Tyr Asp Pro Leu Leu Lys Ser Tyr Ile Tyr
1 5 10

<210> 135

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<400> 135

Tyr Phe Asp Gln Phe Thr His Leu Ser Ile Lys Lys
1 5 10

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<400> 136

Tyr Phe Asp Gln Xaa Thr His Leu Ser Ile Lys Lys
 1 5 10

<210> 137
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<400> 137

Glu His Tyr Tyr Thr Asp Pro Leu Thr Gly Ala Arg Ile
 1 5 10

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Glu His Tyr Xaa Thr Asp Pro Leu Thr Gly Ala Arg Ile
 1 5 10

<210> 139

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<400> 139

Glu His Tyr Ser Thr Asp Pro Leu Thr Gly Ala Arg Ile
 1 5 10

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<400> 140

Glu His Tyr Tyr Thr Asp Pro Leu Xaa Gly Xaa Arg Ile
 1 5 10

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<400> 141

Glu His Tyr Tyr Thr Asp Pro Leu Xaa Gly Xaa Arg Xaa
 1 5 10

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<400> 142

Glu His Tyr Tyr Thr Asp Pro Leu Xaa Gly Ala Arg Xaa
 1 5 10

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Glu His Xaa Tyr Thr Asp Pro Leu Asn Gly Ala Arg Xaa
1 5 10

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Glu His Tyr Tyr Asn Asp Pro Leu Asn Gly Ala Arg Xaa
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<400> 145

Xaa His Xaa Tyr Asn Asp Pro Leu Asn Gly Ala Arg Xaa
 1 5 10

<210> 146
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<400> 146

Lys Pro Tyr Tyr Asp Pro Ile Thr Lys Met Thr His His
 1 5 10

<210> 147
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<400> 147

Lys Pro Tyr Tyr Asp Pro Ile Thr Lys Met Ser His His
 1 5 10

<210> 148
 <211> 13
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<400> 148

Lys Pro Tyr Tyr Asp Pro Ile Ser Lys Met Thr His His
 1 5 10

<210> 149
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Lys Pro Xaa Xaa Asp Pro Ile Ser Lys Met Thr His His
1 5 10

<210> 150

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<400> 150

Gln Ile Gly Tyr Asp Glu Leu Thr Lys Ala Trp Val Thr
1 5 10

<210> 151

<211> 13

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<400> 151

Gln Leu Gly Tyr Asp Glu Leu Thr Lys Ala Trp Val Thr
1 5 10

<210> 152

<211> 13

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<400> 152

Lys Ile Asp Glu Leu Xaa Met Gln Asn Ile Ile Ile Trp
1 5 10

<210> 153
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<400> 153

Asp His Thr Asp Pro Leu Ile Gln Gly Leu Thr Lys Arg
 1 5 10

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<400> 154

Trp His Asp Pro Leu Lys His Met His Phe His His Glu
 1 5 10

<210> 155
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<400> 155

Lys His Ile Asp Met Glu Thr Gly Leu Ile Leu Gln Asn
 1 5 10

<210> 156
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<400> 156

Met Gln Val Asp Pro Glu Thr Gly Leu Lys Tyr Glu His
 1 5 10

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<211> 13
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<400> 157

Xaa Leu Asp Gln His Val Asn Xaa Xaa Xaa Tyr Gln Ser
 1 5 10

<210> 158
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<400> 158

Glu Xaa Xaa Xaa Thr Xaa Xaa Leu Thr Gly Ala Arg Xaa
 1 5 10

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<400> 159

Gly Pro Tyr Asn Ile Xaa Arg Leu Xaa Gly Glu Arg Xaa
 1 5 10

<210> 160
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<400> 160

His Ile Lys Met Leu His Gln Gly Ser Phe Val Gly Val
 1 5 10

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His Pro Thr Asn Thr Xaa Xaa His Gln Xaa Val Tyr Ser
1 5 10

<210> 162

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<223> X is unknown

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His Arg Gly Gln Val Xaa Xaa Leu Asn Gly Met Val Xaa
1 5 10

<210> 163

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 163

Ala Gly Lys Glu Pro Cys Tyr Phe Tyr Trp Glu Cys Ala Val Ser Gly
 1 5 10 15

Pro Gly Pro Glu Gly Gly Gly Lys
 20

<210> 164

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 164

Ala Gly Val Pro Phe Cys Asp Leu Leu Thr Lys His Cys Phe Glu Ala
 1 5 10 15

Gly Pro Gly Pro Glu Gly Gly Gly Lys
 20 25

<210> 165

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 165

Gly Ser Ser Arg Leu Cys His Met Asp Glu Leu Thr His Val Cys Val
 1 5 10 15

His Phe Ala Pro Pro Gly Pro Glu Gly Gly Gly Lys
 20 25

<210> 166

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 166

Gly Asp Gly Gly Asn Cys Tyr Thr Asp Ser Leu Thr Lys Leu His Phe
 1 5 10 15

Cys Met Gly Asp Glu Pro Gly Pro Glu Gly Gly Gly Lys
 20 25

<210> 167
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 167

Gly Tyr Asp Val Leu Thr Lys Leu Tyr Phe Val Pro Gly Gly Pro Gly
 1 5 10 15

Pro Glu Gly Gly Gly Lys
 20

<210> 168
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 168

Trp Thr Asp Ser Leu Thr Gly Leu Trp Phe Pro Asp Gly Gly Pro Gly
 1 5 10 15

Pro Glu Gly Gly Gly Lys
 20

<210> 169
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 169

Ala Gly Lys Glu Pro Cys Tyr Phe Tyr Trp Glu Cys Ala Val Ser Gly
 1 5 10 15

Pro Gly Pro Glu Gly Gly Gly Lys
 20

<210> 170
 <211> 24
 <212> PRT
 <213> Artificial Sequence

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<400> 170

Ala Gly Arg Glu Pro Cys Tyr Phe Tyr Trp Glu Cys Ala Val Ser Gly
 1 5 10 15

Pro Gly Pro Glu Gly Gly Gly Lys
 20

<210> 171
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 171

Ala Gly Gln Glu Pro Cys Tyr Phe Tyr Trp Glu Cys Ala Val Ser Gly
 1 5 10 15

Pro Gly Pro Glu Gly Gly Gly Lys
 20

<210> 172
 <211> 25
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<220>
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<400> 172

Ala Gly Asn Xaa Glu Pro Cys Tyr Phe Tyr Trp Glu Cys Ala Val Ser
 1 5 10 15

Gly Pro Gly Pro Glu Gly Gly Gly Lys
 20 25

<210> 173
 <211> 285
 <212> PRT
 <213> Homo Sapiens

<400> 173

Met Asp Asp Ser Thr Glu Arg Glu Gln Ser Arg Leu Thr Ser Cys Leu
 1 5 10 15

Lys Lys Arg Glu Glu Met Lys Leu Lys Glu Cys Val Ser Ile Leu Pro
 20 25 30

Arg Lys Glu Ser Pro Ser Val Arg Ser Ser Lys Asp Gly Lys Leu Leu
 35 40 45

Ala Ala Thr Leu Leu Leu Ala Leu Leu Ser Cys Cys Leu Thr Val Val
 50 55 60

Ser Phe Tyr Gln Val Ala Ala Leu Gln Gly Asp Leu Ala Ser Leu Arg
 65 70 75 80

Ala Glu Leu Gln Gly His His Ala Glu Lys Leu Pro Ala Gly Ala Gly
 85 90 95

Ala Pro Lys Ala Gly Leu Glu Glu Ala Pro Ala Val Thr Ala Gly Leu
 100 105 110

Lys Ile Phe Glu Pro Pro Ala Pro Gly Glu Gly Asn Ser Ser Gln Asn
 115 120 125

Ser Arg Asn Lys Arg Ala Val Gln Gly Pro Glu Glu Thr Val Thr Gln
 130 135 140

Asp Cys Leu Gln Leu Ile Ala Asp Ser Glu Thr Pro Thr Ile Gln Lys
 145 150 155 160

Gly Ser Tyr Thr Phe Val Pro Trp Leu Leu Ser Phe Lys Arg Gly Ser
 165 170 175

Ala Leu Glu Glu Lys Glu Asn Lys Ile Leu Val Lys Glu Thr Gly Tyr

180

185

190

Phe Phe Ile Tyr Gly Gln Val Leu Tyr Thr Asp Lys Thr Tyr Ala Met
195 200 205

Gly His Leu Ile Gln Arg Lys Lys Val His Val Phe Gly Asp Glu Leu
210 215 220

Ser Leu Val Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Glu Thr Leu
225 230 235 240

Pro Asn Asn Ser Cys Tyr Ser Ala Gly Ile Ala Lys Leu Glu Glu Gly
245 250 255

Asp Glu Leu Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile Ser Leu
260 265 270

Asp Gly Asp Val Thr Phe Phe Gly Ala Leu Lys Leu Leu
275 280 285

<210> 174

<211> 266

<212> PRT

<213> Homo Sapiens

<400> 174

Met Asp Asp Ser Thr Glu Arg Glu Gln Ser Arg Leu Thr Ser Cys Leu
1 5 10 15

Lys Lys Arg Glu Glu Met Lys Leu Lys Glu Cys Val Ser Ile Leu Pro
20 25 30

Arg Lys Glu Ser Pro Ser Val Arg Ser Ser Lys Asp Gly Lys Leu Leu
35 40 45

Ala Ala Thr Leu Leu Leu Ala Leu Leu Ser Cys Cys Leu Thr Val Val
50 55 60

Ser Phe Tyr Gln Val Ala Ala Leu Gln Gly Asp Leu Ala Ser Leu Arg
65 70 75 80

Ala Glu Leu Gln Gly His His Ala Glu Lys Leu Pro Ala Gly Ala Gly
85 90 95

Ala Pro Lys Ala Gly Leu Glu Glu Ala Pro Ala Val Thr Ala Gly Leu
100 105 110

Lys Ile Phe Glu Pro Pro Ala Pro Gly Glu Gly Asn Ser Ser Gln Asn
115 120 125

Ser Arg Asn Lys Arg Ala Val Gln Gly Pro Glu Glu Thr Gly Ser Tyr
130 135 140

Thr Phe Val Pro Trp Leu Leu Ser Phe Lys Arg Gly Ser Ala Leu Glu
145 150 155 160

Glu Lys Glu Asn Lys Ile Leu Val Lys Glu Thr Gly Tyr Phe Phe Ile
165 170 175

Tyr Gly Gln Val Leu Tyr Thr Asp Lys Thr Tyr Ala Met Gly His Leu
180 185 190

Ile Gln Arg Lys Lys Val His Val Phe Gly Asp Glu Leu Ser Leu Val
195 200 205

Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Glu Thr Leu Pro Asn Asn
210 215 220

Ser Cys Tyr Ser Ala Gly Ile Ala Lys Leu Glu Glu Gly Asp Glu Leu
225 230 235 240

Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile Ser Leu Asp Gly Asp
245 250 255

Val Thr Phe Phe Gly Ala Leu Lys Leu Leu
260 265

<210> 175
<211> 309
<212> PRT
<213> mouse

<400> 175

Met Asp Glu Ser Ala Lys Thr Leu Pro Pro Pro Cys Leu Cys Phe Cys
1 5 10 15

Ser Glu Lys Gly Glu Asp Met Lys Val Gly Tyr Asp Pro Ile Thr Pro

20

25

30

Gln Lys Glu Glu Gly Ala Trp Phe Gly Ile Cys Arg Asp Gly Arg Leu
 35 40 45

Leu Ala Ala Thr Leu Leu Leu Ala Leu Leu Ser Ser Ser Phe Thr Ala
 50 55 60

Met Ser Leu Tyr Gln Leu Ala Ala Leu Gln Ala Asp Leu Met Asn Leu
 65 70 75 80

Arg Met Glu Leu Gln Ser Tyr Arg Gly Ser Ala Thr Pro Ala Ala Ala
 85 90 95

Gly Ala Pro Glu Leu Thr Ala Gly Val Lys Leu Leu Thr Pro Ala Ala
 100 105 110

Pro Arg Pro His Asn Ser Ser Arg Gly His Arg Asn Arg Arg Ala Phe
 115 120 125

Gln Gly Pro Glu Glu Thr Glu Gln Asp Val Asp Leu Ser Ala Pro Pro
 130 135 140

Ala Pro Cys Leu Pro Gly Cys Arg His Ser Gln His Asp Asp Asn Gly
 145 150 155 160

Met Asn Leu Arg Asn Ile Ile Gln Asp Cys Leu Gln Leu Ile Ala Asp
 165 170 175

Ser Asp Thr Pro Thr Ile Arg Lys Gly Thr Tyr Thr Phe Val Pro Trp
 180 185 190

Leu Leu Ser Phe Lys Arg Gly Asn Ala Leu Glu Glu Lys Glu Asn Lys
 195 200 205

Ile Val Val Arg Gln Thr Gly Tyr Phe Phe Ile Tyr Ser Gln Val Leu
 210 215 220

Tyr Thr Asp Pro Ile Phe Ala Met Gly His Val Ile Gln Arg Lys Lys
 225 230 235 240

Val His Val Phe Gly Asp Glu Leu Ser Leu Val Thr Leu Phe Arg Cys
 245 250 255

Ile Gln Asn Met Pro Lys Thr Leu Pro Asn Asn Ser Cys Tyr Ser Ala
 260 265 270

Gly Ile Ala Arg Leu Glu Glu Gly Asp Glu Ile Gln Leu Ala Ile Pro
 275 280 285

Arg Glu Asn Ala Gln Ile Ser Arg Asn Gly Asp Asp Thr Phe Phe Gly
 290 295 300

Ala Leu Lys Leu Leu
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<210> 176
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 <213> mouse
 <400> 176

Met Asp Glu Ser Ala Lys Thr Leu Pro Pro Pro Cys Leu Cys Phe Cys
 1 5 10 15

Ser Glu Lys Gly Glu Asp Met Lys Val Gly Tyr Asp Pro Ile Thr Pro
 20 25 30

Gln Lys Glu Glu Gly Ala Trp Phe Gly Ile Cys Arg Asp Gly Arg Leu
 35 40 45

Leu Ala Ala Thr Leu Leu Leu Ala Leu Leu Ser Ser Ser Phe Thr Ala
 50 55 60

Met Ser Leu Tyr Gln Leu Ala Ala Leu Gln Ala Asp Leu Met Asn Leu
 65 70 75 80

Arg Met Glu Leu Gln Ser Tyr Arg Gly Ser Ala Thr Pro Ala Ala Ala
 85 90 95

Gly Ala Pro Glu Leu Thr Ala Gly Val Lys Leu Leu Thr Pro Ala Ala
 100 105 110

Pro Arg Pro His Asn Ser Ser Arg Gly His Arg Asn Arg Arg Ala Phe
 115 120 125

Gln Gly Pro Glu Glu Thr Glu Gln Asp Val Asp Leu Ser Ala Pro Pro
 130 135 140

Ala Pro Cys Leu Pro Gly Cys Arg His Ser Gln His Asp Asp Asn Gly
 145 150 155 160

Met Asn Leu Arg Asn Arg Thr Tyr Thr Phe Val Pro Trp Leu Leu Ser
 165 170 175

Phe Lys Arg Gly Asn Ala Leu Glu Glu Lys Glu Asn Lys Ile Val Val
 180 185 190

Arg Gln Thr Gly Tyr Phe Phe Ile Tyr Ser Gln Val Leu Tyr Thr Asp
 195 200 205

Pro Ile Phe Ala Met Gly His Val Ile Gln Arg Lys Lys Val His Val
 210 215 220

Phe Gly Asp Glu Leu Ser Leu Val Thr Leu Phe Arg Cys Ile Gln Asn
 225 230 235 240

Met Pro Lys Thr Leu Pro Asn Asn Ser Cys Tyr Ser Ala Gly Ile Ala
 245 250 255

Arg Leu Glu Glu Gly Asp Glu Ile Gln Leu Ala Ile Pro Arg Glu Asn
 260 265 270

Ala Gln Ile Ser Arg Asn Gly Asp Asp Thr Phe Phe Gly Ala Leu Lys
 275 280 285

Leu Leu
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<210> 177
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 <213> rat

<400> 177

Ala Val Gln Ala Asp Leu Met Ser Leu Arg Met Glu Leu Gln Ser Tyr
 1 5 10 15

Arg Ser Ser Ala Thr Pro Ala Ala Pro Gly Ala Pro Gly Leu Ser Ala
 20 25 30

Gly Val Lys Leu Pro Thr Pro Ala Ala Pro Gly Pro His Asn Ser Ser
 35 40 45

Arg Gly Gln Arg Asn Arg Arg Ala Phe Gln Gly Pro Glu Glu Thr Glu
 50 55 60

Gln Asp Val Asp Leu Ser Ala Thr Pro Ala Pro Ser Leu Pro Gly Asn
 65 70 75 80

Cys His Ala Ser His His Asp Glu Asn Gly Leu Asn Leu Arg Thr Ile
 85 90 95

Ile Gln Asp Cys Leu Gln Leu Ile Ala Asp Ser Asn Thr Pro Thr Ile
 100 105 110

Arg Lys Gly Thr Tyr Thr Phe Val Pro Trp Leu Leu Ser Phe Lys Arg
 115 120 125

Gly Asn Ala Leu Glu Glu Lys Glu Asn Lys Ile Val Val Arg Gln Thr
 130 135 140

Gly Tyr Phe Phe Ile Tyr Ser Gln Val Leu Tyr Thr Asp Pro Ile Phe
 145 150 155 160

Ala Met Gly His Val Ile Gln Arg Lys Lys Ile His Val Phe Gly Asp
 165 170 175

Glu Leu Ser Leu Val Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Lys
 180 185 190

Thr Leu Pro Asn Asn Ser Cys Tyr Ser Ala Gly Ile Ala Lys Leu Glu
 195 200 205

Glu Gly Asp Glu Ile Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile
 210 215 220

Ser Arg Asn Gly Asp Asp Thr Phe Phe Gly Ala Leu Lys Leu Leu
 225 230 235

<210> 178
 <211> 220
 <212> PRT

<213> rat

<400> 178

Ala Val Gln Ala Asp Leu Met Ser Leu Arg Met Glu Leu Gln Ser Tyr
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Arg Ser Ser Ala Thr Pro Ala Ala Pro Gly Ala Pro Gly Leu Ser Ala
20 25 30

Gly Val Lys Leu Pro Thr Pro Ala Ala Pro Gly Pro His Asn Ser Ser
35 40 45

Arg Gly Gln Arg Asn Arg Arg Ala Phe Gln Gly Pro Glu Glu Thr Glu
50 55 60

Gln Asp Val Asp Leu Ser Ala Thr Pro Val Pro Ser Leu Pro Gly Asn
65 70 75 80

Cys His Ala Ser His His Asp Glu Asn Gly Leu Asn Leu Arg Thr Arg
85 90 95

Thr Tyr Thr Phe Val Pro Trp Leu Leu Ser Phe Lys Arg Gly Asn Ala
100 105 110

Leu Glu Glu Lys Glu Asn Lys Ile Val Val Arg Gln Thr Gly Tyr Phe
115 120 125

Phe Ile Tyr Ser Gln Val Leu Tyr Thr Asp Pro Ile Phe Ala Met Gly
130 135 140

His Val Ile Gln Arg Lys Lys Ile His Val Phe Gly Asp Glu Leu Ser
145 150 155 160

Leu Val Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Lys Thr Leu Pro
165 170 175

Asn Asn Ser Cys Tyr Ser Ala Gly Ile Ala Lys Leu Glu Glu Gly Asp
180 185 190

Glu Ile Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile Ser Arg Asn
195 200 205

Gly Asp Asp Thr Phe Phe Gly Ala Leu Lys Leu Leu

210

215

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<210> 179

<211> 207

<212> PRT

<213> rat

<400> 179

Ala Val Gln Ala Asp Leu Met Ser Leu Arg Met Glu Leu Gln Ser Tyr
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Arg Ser Ser Ala Thr Pro Ala Ala Pro Gly Ala Pro Gly Leu Ser Ala
20 25 30

Gly Val Lys Leu Pro Thr Pro Ala Ala Pro Gly Pro His Asn Ser Ser
35 40 45

Arg Gly Gln Arg Asn Arg Arg Ala Phe Gln Gly Pro Glu Glu Thr Val
50 55 60

Ile Gln Asp Cys Leu Gln Leu Ile Ala Asp Ser Asn Thr Pro Thr Ile
65 70 75 80

Arg Lys Gly Thr Tyr Thr Phe Val Pro Trp Leu Leu Ser Phe Lys Arg
85 90 95

Gly Asn Ala Leu Glu Glu Lys Glu Asn Lys Ile Val Val Arg Gln Thr
100 105 110

Gly Tyr Phe Phe Ile Tyr Ser Gln Val Leu Tyr Thr Asp Pro Ile Phe
115 120 125

Ala Met Gly His Val Ile Gln Arg Lys Lys Ile His Val Phe Gly Asp
130 135 140

Glu Leu Ser Leu Val Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Lys
145 150 155 160

Thr Leu Pro Asn Asn Ser Cys Tyr Ser Ala Gly Ile Ala Lys Leu Glu
165 170 175

Glu Gly Asp Glu Val Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile
180 185 190

Ser Arg Asn Gly Asp Asp Thr Phe Phe Gly Ala Leu Lys Leu Leu
 195 200 205

<210> 180
 <211> 188
 <212> PRT
 <213> rat

<400> 180

Ala Val Gln Ala Asp Leu Met Ser Leu Arg Met Glu Leu Gln Ser Tyr
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Arg Ser Ser Ala Thr Pro Ala Ala Pro Gly Ala Pro Gly Leu Ser Ala
 20 25 30

Gly Val Lys Leu Pro Thr Pro Ala Ala Pro Gly Pro His Asn Ser Ser
 35 40 45

Arg Gly Gln Arg Asn Arg Arg Ala Phe Gln Gly Pro Glu Glu Thr Gly
 50 55 60

Thr Tyr Thr Phe Val Pro Trp Leu Leu Ser Phe Lys Arg Gly Asn Ala
 65 70 75 80

Leu Glu Glu Lys Glu Asn Lys Ile Val Val Arg Gln Thr Gly Tyr Phe
 85 90 95

Phe Ile Tyr Ser Gln Val Leu Tyr Thr Asp Pro Ile Phe Ala Met Gly
 100 105 110

His Val Ile Gln Arg Lys Lys Ile His Val Phe Gly Asp Glu Leu Ser
 115 120 125

Leu Val Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Lys Thr Leu Pro
 130 135 140

Asn Asn Ser Cys Tyr Ser Ala Gly Ile Ala Lys Leu Glu Glu Gly Asp
 145 150 155 160

Glu Ile Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile Ser Arg Asn
 165 170 175

Gly Asp Asp Thr Phe Phe Gly Ala Leu Lys Leu Leu

180

185

<210> 181
 <211> 243
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 <213> monkey

<400> 181

Lys Asp Arg Lys Leu Leu Ala Ala Ala Leu Leu Leu Ala Leu Leu Ser
 1 5 10 15

Cys Cys Leu Met Val Val Ser Phe Tyr Gln Val Ala Ala Leu Gln Gly
 20 25 30

Asp Leu Ala Ser Leu Arg Ala Glu Leu Gln Gly His His Ala Glu Lys
 35 40 45

Leu Pro Ala Arg Ala Arg Ala Pro Lys Ala Gly Leu Gly Glu Ala Pro
 50 55 60

Ala Val Thr Ala Gly Leu Lys Ile Phe Glu Pro Pro Ala Pro Gly Glu
 65 70 75 80

Gly Asn Ser Ser Gln Ser Ser Arg Asn Lys Arg Ala Ile Gln Gly Ala
 85 90 95

Glu Glu Thr Val Ile Gln Asp Cys Leu Gln Leu Ile Ala Asp Ser Glu
 100 105 110

Thr Pro Thr Ile Gln Lys Gly Ser Tyr Thr Phe Val Pro Trp Leu Leu
 115 120 125

Ser Phe Lys Arg Gly Ser Ala Leu Glu Glu Lys Glu Asn Lys Ile Leu
 130 135 140

Val Lys Glu Thr Gly Tyr Phe Phe Ile Tyr Gly Gln Val Leu Tyr Thr
 145 150 155 160

Asp Lys Thr Tyr Ala Met Gly His Leu Ile Gln Arg Lys Lys Val His
 165 170 175

Val Phe Gly Asp Glu Leu Ser Leu Val Thr Leu Phe Arg Cys Ile Gln
 180 185 190

Asn Met Pro Glu Thr Leu Pro Asn Asn Ser Cys Tyr Ser Ala Gly Ile
 195 200 205

Ala Lys Leu Glu Glu Gly Asp Glu Leu Gln Leu Ala Ile Pro Arg Glu
 210 215 220

Asn Ala Gln Ile Ser Leu Asp Gly Asp Val Thr Phe Phe Gly Ala Leu
 225 230 235 240

Lys Leu Leu

<210> 182
 <211> 219
 <212> PRT
 <213> monkey
 <400> 182

Tyr Gln Val Ala Ala Val Gln Gly Asp Leu Ala Ser Leu Arg Ala Glu
 1 5 10 15

Leu Gln Ser His His Ala Glu Lys Leu Pro Ala Arg Ala Arg Ala Pro
 20 25 30

Lys Ala Gly Leu Gly Glu Ala Pro Ala Val Thr Ala Gly Leu Lys Ile
 35 40 45

Phe Glu Pro Pro Ala Pro Gly Glu Gly Asn Ser Ser Gln Ser Ser Arg
 50 55 60

Asn Lys Arg Ala Ile Gln Gly Ala Glu Glu Thr Val Ile Gln Asp Cys
 65 70 75 80

Leu Gln Leu Ile Ala Asp Ser Glu Thr Pro Thr Ile Gln Lys Gly Ser
 85 90 95

Tyr Thr Phe Val Pro Trp Leu Leu Ser Phe Lys Arg Gly Ser Ala Leu
 100 105 110

Glu Glu Lys Glu Asn Lys Ile Leu Val Lys Glu Thr Gly Tyr Phe Phe
 115 120 125

Ile Tyr Gly Gln Val Leu Tyr Thr Asp Lys Thr Tyr Ala Met Gly His

130

135

140

Leu Ile Gln Arg Lys Lys Val His Val Phe Gly Asp Glu Leu Ser Leu
 145 150 155 160

Val Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Glu Thr Leu Pro Asn
 165 170 175

Asn Ser Cys Tyr Ser Ala Gly Ile Ala Lys Leu Glu Glu Gly Asp Glu
 180 185 190

Leu Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile Ser Leu Asp Gly
 195 200 205

Asp Val Thr Phe Phe Gly Ala Leu Lys Leu Leu
 210 215

<210> 183
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<220>
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 <400> 183

Asp Tyr Lys Asp Asp Asp Asp Lys
 1 5

<210> 184
 <211> 14
 <212> PRT
 <213> Artificial Sequence

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 <223> consensus BLYS binding polypeptide
 <400> 184

Ala Asn Trp Tyr Asp Ser Leu Thr Lys Leu Trp Leu Pro Asp
 1 5 10

<210> 185
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<211> 14

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<400> 186

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Asp
1 5 10

<210> 187

<211> 14

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<400> 187

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Glu
1 5 10

<210> 188
 <211> 14
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<400> 188

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Gly
 1 5 10

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 <211> 14
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<400> 189

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Val
 1 5 10

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Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Ser Asp
 1 5 10

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Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Asn Asp
 1 5 10

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<400> 192

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Thr
 1 5 10

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<400> 193

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Ala
 1 5 10

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Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Asn
 1 5 10

<210> 195
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Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Val Asp
 1 5 10

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Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu His Asp
 1 5 10

<210> 197
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Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Thr Asp
 1 5 10

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 <211> 14
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Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro His
 1 5 10

<210> 199
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Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Thr Val
 1 5 10

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<400> 200

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Leu Asp
1 5 10

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<400> 201

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Leu Glu
1 5 10

<210> 202
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<212> PRT
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<400> 202

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu His Glu
1 5 10

<210> 203
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<400> 203

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Arg
1 5 10

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Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Ala Asp
1 5 10

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<211> 14

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Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Tyr
1 5 10

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Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Ile
1 5 10

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1 5 10

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<400> 208

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Arg Asp
1 5 10

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<400> 209

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Asp
1 5 10

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<400> 210

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Leu Glu
1 5 10

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<400> 211

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Arg Val
1 5 10

<210> 212
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<400> 212

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Glu
1 5 10

<210> 213
<211> 14
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<220>
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<400> 213

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Val
1 5 10

<210> 214
<211> 14
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<220>
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<400> 214

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu His Gln
1 5 10

<210> 215
<211> 14
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<400> 215

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Ala
1 5 10

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Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Arg Val
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<223> BLyS binding polypeptide

<400> 217

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Gly
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<210> 218

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<400> 218

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Arg Tyr
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<210> 219

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<400> 219

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Tyr
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<210> 220

<211> 14

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<400> 220

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Leu Tyr
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Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Arg Asp
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<400> 222

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Val
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<211> 14

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<400> 223

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Leu Gly
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<211> 14

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Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Thr His
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<211> 14

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<400> 225

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Thr
1 5 10

<210> 226

<211> 14

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<223> BLyS binding polypeptide

<400> 226

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Leu Val
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<211> 14

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<400> 227

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Tyr Tyr
1 5 10

<210> 228

<211> 14

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<223> BLyS binding polypeptide

<400> 228

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Ser Asp
 1 5 10

<210> 229
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 229

Ala Ser Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Ala
 1 5 10

<210> 230
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 230

Ala Ser Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu His Asp
 1 5 10

<210> 231
 <211> 14
 <212> PRT
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<220>
 <223> BLYS binding polypeptide

<400> 231

Ala Ser Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Gly
 1 5 10

<210> 232
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<400> 232

Ala Ser Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Gln
1 5 10

<210> 233
<211> 14
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<400> 233

Ala Ser Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Tyr
1 5 10

<210> 234
<211> 14
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<400> 234

Ala Ser Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro His
1 5 10

<210> 235
<211> 14
<212> PRT
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<400> 235

Ala Ser Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Val
1 5 10

<210> 236
<211> 14
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<400> 236

Ala Ser Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Ile

1 5 10

<210> 237
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<400> 237

Ala Ser Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Glu
1 5 10

<210> 238
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Ala Phe Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Arg Val
1 5 10

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Ala Phe Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Glu
1 5 10

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<211> 14
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Ala Phe Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Leu Glu
1 5 10

<210> 241
<211> 14
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Ala Phe Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Val
1 5 10

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<211> 14
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<400> 242

Ala Ile Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Glu
1 5 10

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Ala Ile Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Asp
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Ala Ile Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu His Asp
1 5 10

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Ala Ile Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Thr Asp
 1 5 10

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Ala Ile Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Phe
 1 5 10

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Ala Ile Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Leu Asp
 1 5 10

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<400> 359

Ala Ser Trp Tyr Asp Pro Leu Thr Lys Leu Trp Phe Leu Glu
 1 5 10

<210> 360
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<400> 360

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Phe Pro Ala
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<400> 361

Ala Thr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Phe Pro Asp
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<400> 362

Ala Ile Trp Tyr Asp Pro Leu Thr Lys Leu Trp Phe Pro Glu
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Ala Ile Trp Tyr Asp Pro Leu Thr Lys Leu Trp Phe Pro Asp
1 5 10

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<400> 364

Ala Ile Trp Tyr Asp Pro Leu Thr Lys Leu Trp Phe Pro Gly
1 5 10

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<400> 365

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Phe Pro His
1 5 10

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<400> 366

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Phe Pro Val
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<400> 367

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Phe Pro Asp
1 5 10

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<400> 368

Ala Gly Trp Tyr Asp Pro Leu Thr Lys Leu Trp Phe Pro Asp
1 5 10

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<400> 369

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<400> 370

Ala Lys Trp Tyr Asp Pro Leu Thr Lys Leu Trp Phe Pro Ala
1 5 10

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<400> 371

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Phe Phe Asp
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<400> 372

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Phe Ala Asp
1 5 10

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<400> 373

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Phe Pro Tyr
1 5 10

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<400> 374

Ala Asp Trp Tyr Asp Pro Leu Thr Lys Leu Trp Phe Arg Asp
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<400> 375

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Val Pro Asp
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<210> 376

<211> 14

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Ala Asp Trp Tyr Asp Pro Leu Thr Lys Leu Trp Val Pro Ala
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Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Val Pro Asn
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<400> 378

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Val Pro Glu
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Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Val Pro Gln
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<400> 380

Ala Glu Trp Tyr Asp Pro Leu Thr Lys Leu Trp Val Pro Lys
1 5 10

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Ala Gln Trp Tyr Asp Pro Leu Thr Lys Leu Trp Val Pro Val
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Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Val Pro Tyr
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Ala Leu Trp Tyr Asp Pro Leu Thr Lys Leu Trp Val Pro Tyr
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Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Val Pro Gly
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Ala Asp Trp Tyr Asp Pro Leu Thr Lys Leu Trp Ile Pro Gly
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<400> 387

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<210> 392

<211> 14

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Ala Tyr Glu Tyr Asp Pro Leu Thr Asn Leu Trp Leu Leu Tyr
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<211> 14

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Ala Tyr Trp Tyr Asp Pro Leu Thr Asn Leu Ser Leu Leu Val
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Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Ser Ile Leu Glu
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Ala Asn Trp Tyr Asp Ser Leu Thr Lys Leu Trp Ile Pro Tyr
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<211> 14

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<400> 396

Ala His Trp Phe Asp Pro Leu Thr Gln Leu Lys Ile Arg Val
1 5 10

<210> 397

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

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<400> 397

Ala Tyr Trp Cys Asp Pro Leu Thr Lys Leu Cys Ile Leu Glu
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<210> 398

<211> 14

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Ala Asn Ser Tyr Asp Pro Leu Thr Lys Leu Trp Phe Pro Tyr
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Ala Asn Leu Tyr Asp Pro Leu Thr Lys Leu Trp Val Pro Tyr
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Ala Asn Trp Tyr Asp Ser Leu Thr Lys Leu Trp Phe Pro Asp
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Ala Thr Ser Tyr Asp Ser Leu Thr Lys Leu Trp Leu Pro Ala
1 5 10

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Ala Cys Trp Tyr Asp Ser Leu Thr Lys Leu Cys His Arg Glu
1 5 10

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Ala Ile Gly Asn Asp Pro Leu Thr Lys Leu Trp Ile Pro Tyr
1 5 10

<210> 405
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<400> 405

Ala Asn Trp Gln Asp Cys Leu Thr Lys Leu Cys Leu Ala Gly
1 5 10

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<400> 406

Ala Tyr Trp Phe Asp Pro Leu Thr Asn Leu Trp Leu Leu Glu
1 5 10

<210> 407
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<400> 407

Ala Tyr Trp Tyr Asp Pro Leu Thr Asn Leu Ser Leu Leu Val

1 5 10

<210> 408
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<400> 408

Ala Asn Cys Phe Asp Ser Leu Thr Arg Leu Trp Leu Cys Asp
1 5 10

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Ala Cys Ala Tyr Asp Ala Leu Thr Lys Leu Cys Leu Pro Ala
1 5 10

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1 5 10

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<400> 411

Ala Tyr Trp Tyr Asp Pro Leu Thr Gln Leu Ser Leu Leu Val
1 5 10

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<400> 412

Ala Tyr Arg Tyr Asp Ala Leu Thr Gly Leu Trp Leu Leu Tyr
 1 5 10

<210> 413
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<400> 413

Ala Tyr Trp Asn Asp Pro Leu Thr Lys Leu Lys Leu Arg Leu
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<400> 414

Ala Tyr Trp Tyr Asp Pro Leu Thr Gln Leu Ser Leu Leu Val
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<400> 415

Ala Tyr Arg Tyr Asp Ala Leu Thr Gly Leu Trp Leu Leu Tyr
 1 5 10

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 Ala Tyr Arg Tyr Asp Ser Leu Thr Asn Leu Trp Leu Leu Tyr
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 <400> 417

 Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Ser Ile Leu Glu
 1 5 10

<210> 418
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 Ala Ser Cys Tyr Asp Pro Leu Thr Lys Leu Cys Phe Pro Val
 1 5 10

<210> 419
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 <220>
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 <400> 419

 Ala Phe Trp Phe Asp Pro Leu Thr Gly Leu Trp Leu Leu Glu
 1 5 10

<210> 420
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 <212> PRT
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<220>
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<400> 420

Ala His Trp Tyr Asp Pro Leu Thr Lys Leu Ser Ile Arg Val
 1 5 10

<210> 421
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Ala Pro Trp Tyr Asp Ser Leu Thr Lys Leu Trp Phe Pro Ser
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Ala Asn Cys Tyr Asp Thr Leu Thr Lys Leu Trp Leu Thr Cys
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Ala Asn Trp Tyr Asp Ser Leu Thr Lys Leu Ser Leu Pro Asp
 1 5 10

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Ala Tyr Ala Tyr Asp Phe Leu Thr Gln Leu Ser Leu Pro Asp
1 5 10

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Ala Phe Arg Tyr Asp Ser Leu Thr Gly Leu Trp Leu Arg Tyr
1 5 10

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Ala Asn Cys Tyr Asp Ser Leu Thr Lys Leu Trp Leu Pro Cys
1 5 10

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<400> 427

Ala Asn Gly Tyr Asp Leu Leu Thr Asn Leu Ser Val Ser Asp
1 5 10

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Ala Asn Trp Tyr Asp Pro Leu Thr Arg Leu Trp Ile Pro Val
1 5 10

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<400> 429

Ala Leu Lys Phe Asp Tyr Leu Thr Lys Leu Trp Leu Pro Asp
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Ala Tyr Arg Tyr Asp Ser Leu Thr Lys Leu Trp Leu Pro Gly
1 5 10

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Ala Tyr Cys Tyr Asp Ser Leu Thr Lys Leu Trp Ile Pro Asp
1 5 10

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Ala Ser Trp Glu Asp Ser Leu Thr Lys Leu Trp Leu Ser Lys
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Ala Tyr Trp Tyr Asp Ser Leu Thr Gly Leu Ser Leu Leu Val
1 5 10

<210> 434

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<220>

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Ala Tyr Trp Tyr Asp Pro Leu Thr Tyr Leu Arg Leu Arg Val
1 5 10

<210> 435

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Ala Lys Cys Tyr Asp Ser Leu Thr Asn Leu Trp Leu Cys Asp
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Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu
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<210> 437
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<220>
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<400> 437

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Asp Gly Gly
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Lys

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<400> 438

Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Asp Gly Gly Lys
1 5 10 15

<210> 439
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<400> 439

Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Gly Gly Lys
1 5 10

<210> 440

<211> 17
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<400> 440

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Val Gly Gly
1 5 10 15

Lys

<210> 441
<211> 17
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<400> 441

Ala Asn Trp Phe Asp Pro Leu Thr Lys Leu Trp Leu Pro Asp Gly Gly
1 5 10 15

Lys

<210> 442
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<220>
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<400> 442

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Ser Leu Pro Asp Gly Gly
1 5 10 15

Lys

<210> 443
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Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Phe Pro Asp Gly Gly
 1 5 10 15

Lys

<210> 444
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<220>
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<400> 444

Ala Asn Trp Tyr Asp Ser Leu Thr Lys Leu Trp Leu Pro Asp Gly Gly
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Lys

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Asp Ala His Lys Ser Glu Val Ala His Arg Phe Lys Asp Leu Gly Glu
 1 5 10 15

Glu Asn Phe Lys Ala Leu Val Leu Ile Ala Phe Ala Gln Tyr Leu Gln
 20 25 30

Gln Cys Pro Phe Glu Asp His Val Lys Leu Val Asn Glu Val Thr Glu
 35 40 45

Phe Ala Lys Thr Cys Val Ala Asp Glu Ser Ala Glu Asn Cys Asp Lys
 50 55 60

Ser Leu His Thr Leu Phe Gly Asp Lys Leu Cys Thr Val Ala Thr Leu
 65 70 75 80

Arg Glu Thr Tyr Gly Glu Met Ala Asp Cys Cys Ala Lys Gln Glu Pro
85 90 95

Glu Arg Asn Glu Cys Phe Leu Gln His Lys Asp Asp Asn Pro Asn Leu
100 105 110

Pro Arg Leu Val Arg Pro Glu Val Asp Val Met Cys Thr Ala Phe His
115 120 125

Asp Asn Glu Glu Thr Phe Leu Lys Lys Tyr Leu Tyr Glu Ile Ala Arg
130 135 140

Arg His Pro Tyr Phe Tyr Ala Pro Glu Leu Leu Phe Phe Ala Lys Arg
145 150 155 160

Tyr Lys Ala Ala Phe Thr Glu Cys Cys Gln Ala Ala Asp Lys Ala Ala
165 170 175

Cys Leu Leu Pro Lys Leu Asp Glu Leu Arg Asp Glu Gly Lys Ala Ser
180 185 190

Ser Ala Lys Gln Arg Leu Lys Cys Ala Ser Leu Gln Lys Phe Gly Glu
195 200 205

Arg Ala Phe Lys Ala Trp Ala Val Ala Arg Leu Ser Gln Arg Phe Pro
210 215 220

Lys Ala Glu Phe Ala Glu Val Ser Lys Leu Val Thr Asp Leu Thr Lys
225 230 235 240

Val His Thr Glu Cys Cys His Gly Asp Leu Leu Glu Cys Ala Asp Asp
245 250 255

Arg Ala Asp Leu Ala Lys Tyr Ile Cys Glu Asn Gln Asp Ser Ile Ser
260 265 270

Ser Lys Leu Lys Glu Cys Cys Glu Lys Pro Leu Leu Glu Lys Ser His
275 280 285

Cys Ile Ala Glu Val Glu Asn Asp Glu Met Pro Ala Asp Leu Pro Ser
290 295 300

Leu Ala Ala Asp Phe Val Glu Ser Lys Asp Val Cys Lys Asn Tyr Ala
 305 310 315 320

Glu Ala Lys Asp Val Phe Leu Gly Met Phe Leu Tyr Glu Tyr Ala Arg
 325 330 335

Arg His Pro Asp Tyr Ser Val Val Leu Leu Leu Arg Leu Ala Lys Thr
 340 345 350

Tyr Glu Thr Thr Leu Glu Lys Cys Cys Ala Ala Ala Asp Pro His Glu
 355 360 365

Cys Tyr Ala Lys Val Phe Asp Glu Phe Lys Pro Leu Val Glu Glu Pro
 370 375 380

Gln Asn Leu Ile Lys Gln Asn Cys Glu Leu Phe Glu Gln Leu Gly Glu
 385 390 395 400

Tyr Lys Phe Gln Asn Ala Leu Leu Val Arg Tyr Thr Lys Lys Val Pro
 405 410 415

Gln Val Ser Thr Pro Thr Leu Val Glu Val Ser Arg Asn Leu Gly Lys
 420 425 430

Val Gly Ser Lys Cys Cys Lys His Pro Glu Ala Lys Arg Met Pro Cys
 435 440 445

Ala Glu Asp Tyr Leu Ser Val Val Leu Asn Gln Leu Cys Val Leu His
 450 455 460

Glu Lys Thr Pro Val Ser Asp Arg Val Thr Lys Cys Cys Thr Glu Ser
 465 470 475 480

Leu Val Asn Arg Arg Pro Cys Phe Ser Ala Leu Glu Val Asp Glu Thr
 485 490 495

Tyr Val Pro Lys Glu Phe Asn Ala Glu Thr Phe Thr Phe His Ala Asp
 500 505 510

Ile Cys Thr Leu Ser Glu Lys Glu Arg Gln Ile Lys Lys Gln Thr Ala
 515 520 525

Leu Val Glu Leu Val Lys His Lys Pro Lys Ala Thr Lys Glu Gln Leu
 530 535 540

Lys Ala Val Met Asp Asp Phe Ala Ala Phe Val Glu Lys Cys Cys Lys
 545 550 555 560

Ala Asp Asp Lys Glu Thr Cys Phe Ala Glu Glu Gly Lys Lys Leu Val
 565 570 575

Ala Ala Ser Gln Ala Ala Leu Gly Leu
 580 585

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<220>
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<220>
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 <222> (2)..(2)
 <223> X is Pro, Ser, Thr, Phe, Leu, Tyr, Cys, or Ala

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 Asp Xaa Leu Thr
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<210> 447
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 <223> X2 is any amino acid except Arg;

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 <222> (3)..(3)
 <223> X3 is Trp, Glu, Lys, Cys, Leu, Ala, Arg, Gly, or Ser;

<220>

<221> MISC_FEATURE
 <222> (4)..(4)
 <223> X4 is Tyr, Phe, Glu, Cys, Asn;

<220>
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 <222> (6)..(6)
 <223> X6 is Pro, Ser, Thr, Phe, Leu, Tyr, Cys, or Ala;

<220>
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 <222> (9)..(9)
 <223> X9 is Lys, Asn, Gln, Gly, or Arg;

<220>
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 <222> (11)..(11)
 <223> X11 is Trp, Ser, Thr, Arg, Cys, Tyr, or Lys;

<220>
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 <222> (12)..(12)
 <223> X12 is Leu, Phe, Val, Ile, or His;

<220>
 <221> MISC_FEATURE
 <222> (13)..(13)
 <223> X13 is Pro, Leu, His, Ser, Arg, Asn, Gln, Thr, Val, Ala, Cys, Ile
 , Phe, or Tyr;

<220>
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 <223> X14 is Asp, Glu, Asn, Val, His, Gln, Arg, Gly, Ser, Tyr, Ala, Cys
 , Lys, Ile, Thr or Leu.

<400> 447

Ala Xaa Xaa Xaa Asp Xaa Leu Thr Xaa Leu Xaa Xaa Xaa Xaa
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<210> 448
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<220>
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<220>
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 <223> X1 is Trp, Glu, Lys, Cys, Leu, Ala, Arg, Gly, or Ser;

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> X2 is Tyr, Phe, Glu, Cys, Asn;

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X4 is Pro, Ser, Thr, Phe, Leu, Tyr, Cys, or Ala;

<220>
 <221> MISC_FEATURE
 <222> (7)..(7)
 <223> X7 is Lys, Asn, Gln, Gly, or Arg;

<220>
 <221> MISC_FEATURE
 <222> (9)..(9)
 <223> X9 is Trp, Ser, Thr, Arg, Cys, Tyr, or Lys;

<220>
 <221> MISC_FEATURE
 <222> (10)..(10)
 <223> X10 is Leu, Phe, Val, Ile, or His.

<400> 448

Xaa Xaa Asp Xaa Leu Thr Xaa Leu Xaa Xaa
 1 5 10

<210> 449
 <211> 733
 <212> DNA
 <213> Homo Sapiens

<400> 449
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 tctcccgga tcttgaggtc acatgcgtgg tgggtggacgt aagccacgaa gaccctgagg 180
 tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240
 aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact 300

ggctgaatgg caaggagtac aagtgcaagg tctccaacaa agccctccca acccccatcg 360
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 catcccgga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct 480
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 acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc 660
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 gactctagag gat 733

<210> 450
 <211> 16
 <212> PRT
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 <400> 450

Ala Gly Lys Glu Pro Cys Tyr Phe Tyr Trp Glu Cys Ala Val Ser Gly
 1 5 10 15

<210> 451
 <211> 17
 <212> PRT
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 <400> 451

Ala Gly Val Pro Phe Cys Asp Leu Leu Thr Lys His Cys Phe Glu Ala
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Gly

<210> 452
 <211> 20
 <212> PRT
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<400> 452

Gly Ser Ser Arg Leu Cys His Met Asp Glu Leu Thr His Val Cys Val
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His Phe Ala Pro
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<210> 453

<211> 21

<212> PRT

<213> Artificial Sequence

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<400> 453

Gly Asp Gly Gly Asn Cys Tyr Thr Asp Ser Leu Thr Lys Leu His Phe
1 5 10 15

Cys Met Gly Asp Glu
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<210> 454

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> BLYS binding polypeptide

<400> 454

Gly Tyr Asp Val Leu Thr Lys Leu Tyr Phe Val Pro Gly Gly
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<210> 455

<211> 14

<212> PRT

<213> Artificial Sequence

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<400> 455

Trp Thr Asp Ser Leu Thr Gly Leu Trp Phe Pro Asp Gly Gly
1 5 10

<210> 456
<211> 12
<212> PRT
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<400> 456

Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Asp
1 5 10

<210> 457
<211> 10
<212> PRT
<213> Artificial Sequence

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Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu
1 5 10

<210> 458
<211> 14
<212> PRT
<213> Artificial Sequence

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<400> 458

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Ser Leu Pro Asp
1 5 10